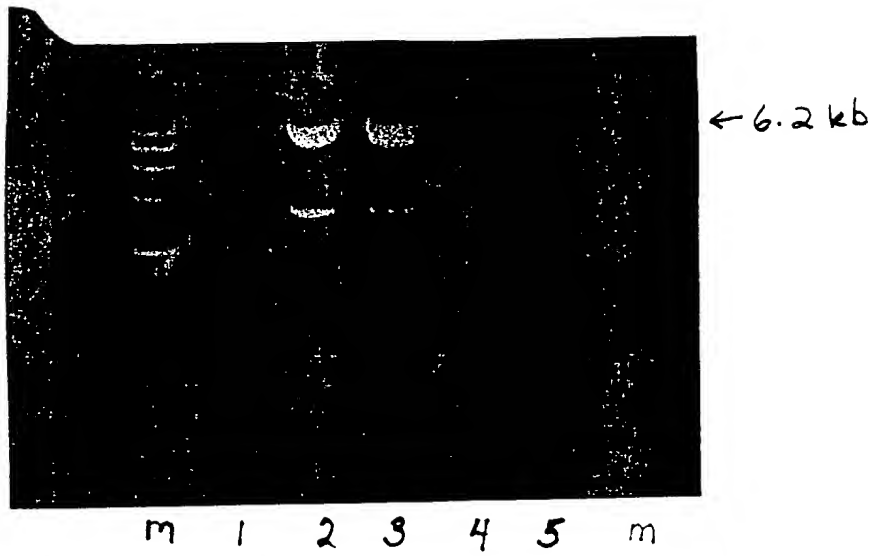


Figure 1

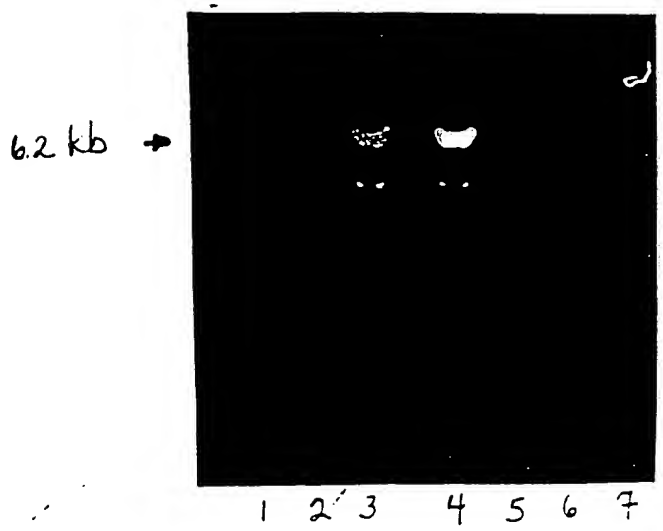


Figure 2

2644804-960205.000

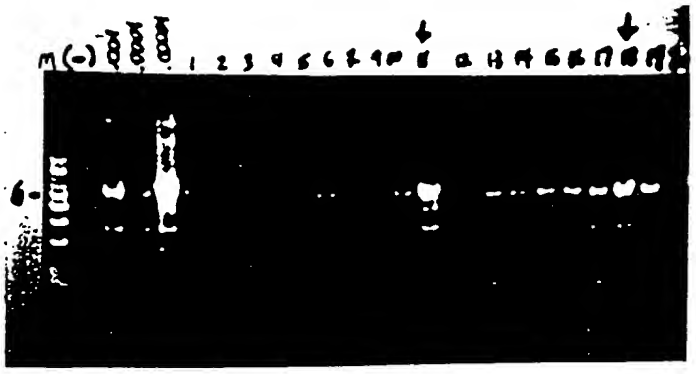


Figure 3

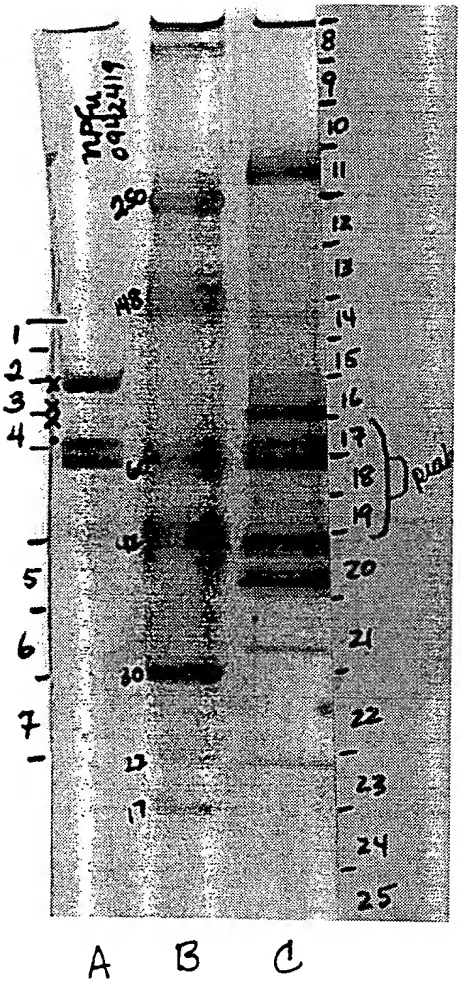


Figure 4

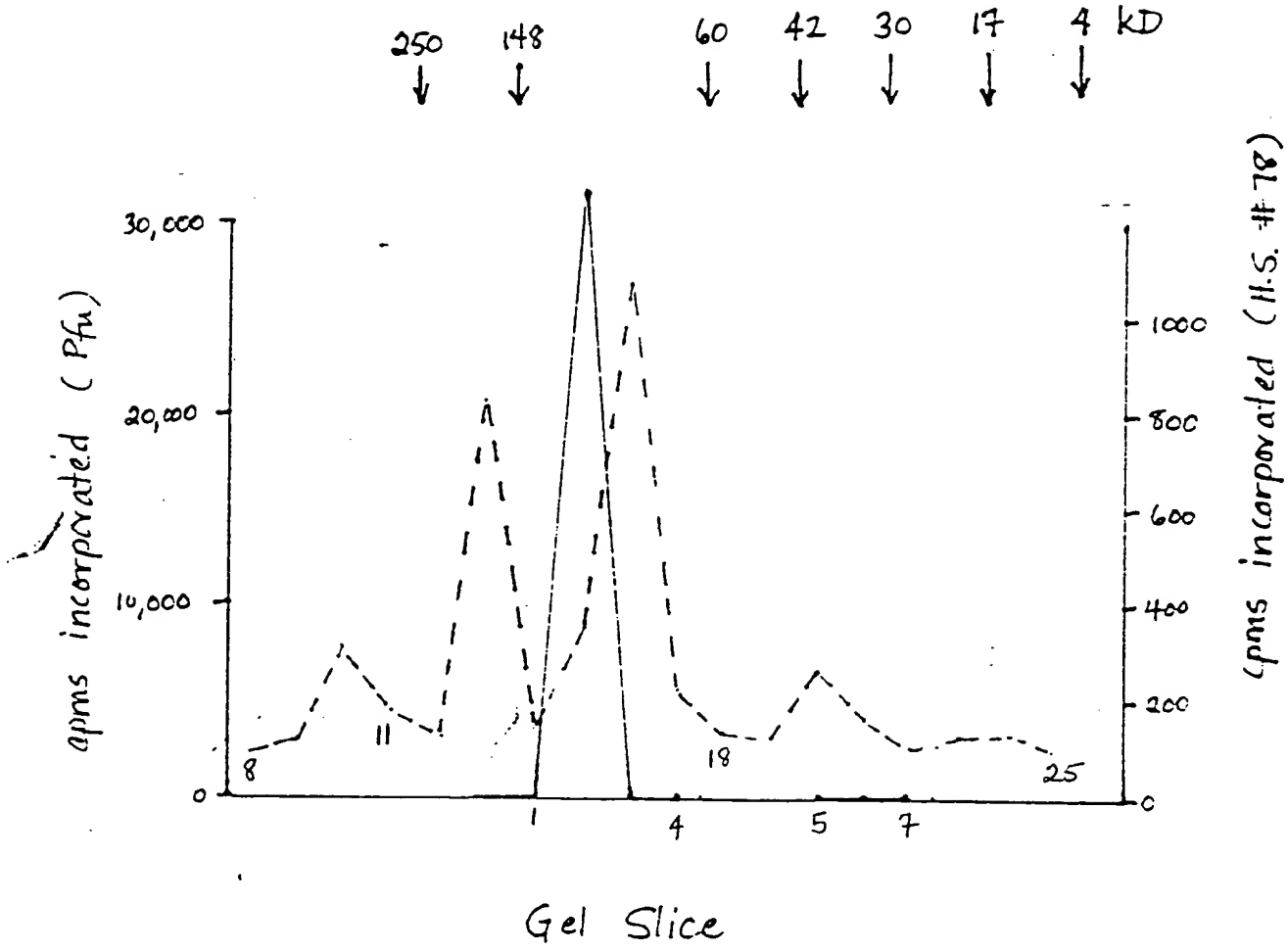

250
148
60
42
30
17
4 kD
30,000
20,000
10,000
0
cpms incorporated (Pfu)
1000
800
600
400
200
0
cpms incorporated (U.S. #78)
8
11
18
25
1
4
5
7
Gel Slice

Figure 5

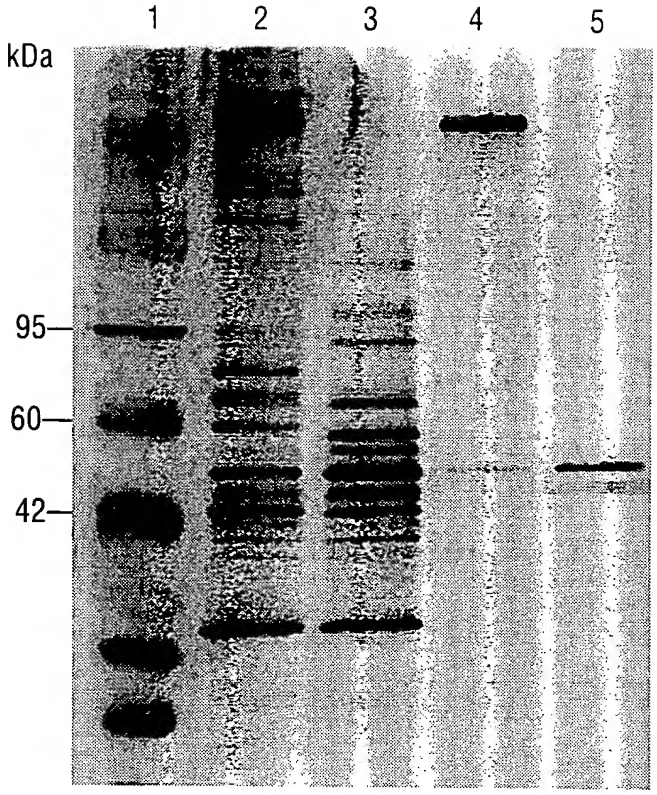


Figure 6

0855V06 - 4005459

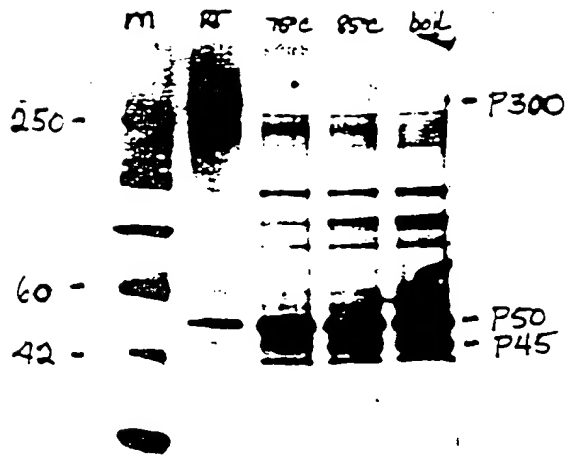


Figure 7

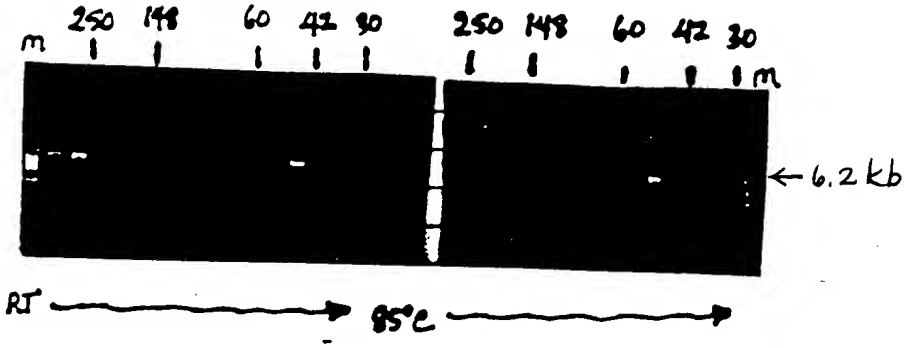


Figure 8

0 8 5 5 N 0 9 . 4 0 5 9 2

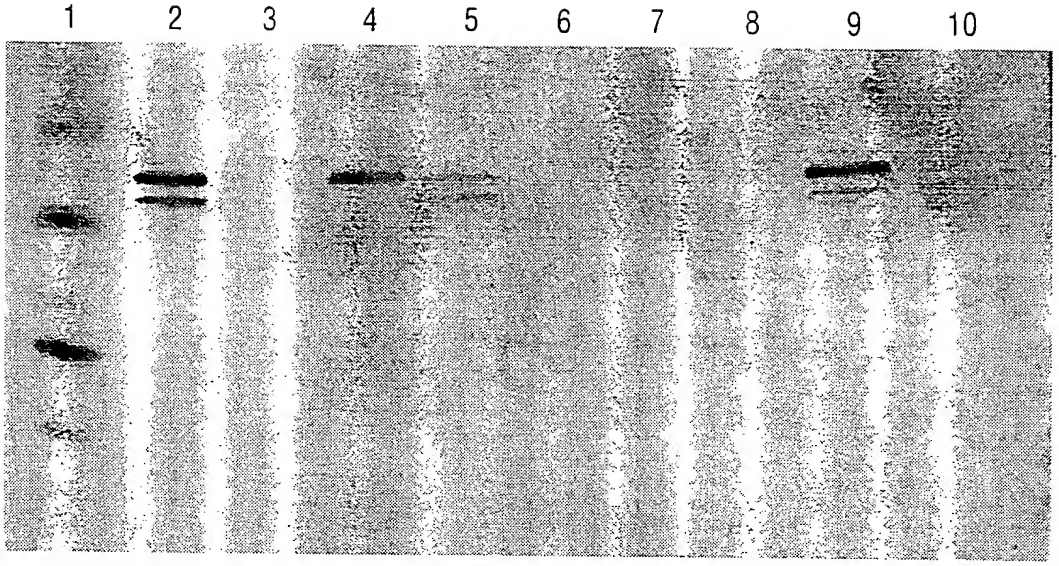


Figure 9

09/554,889 - 05/04/00

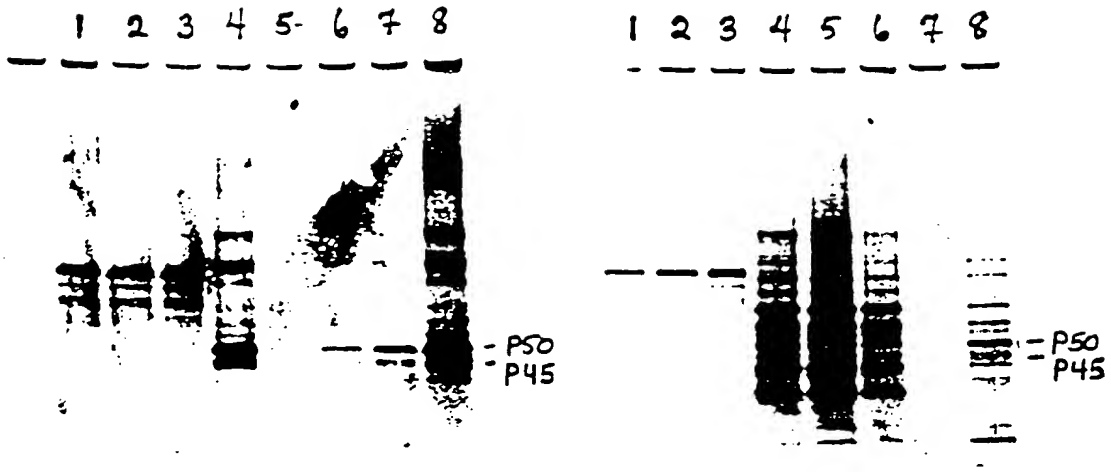


Figure 10

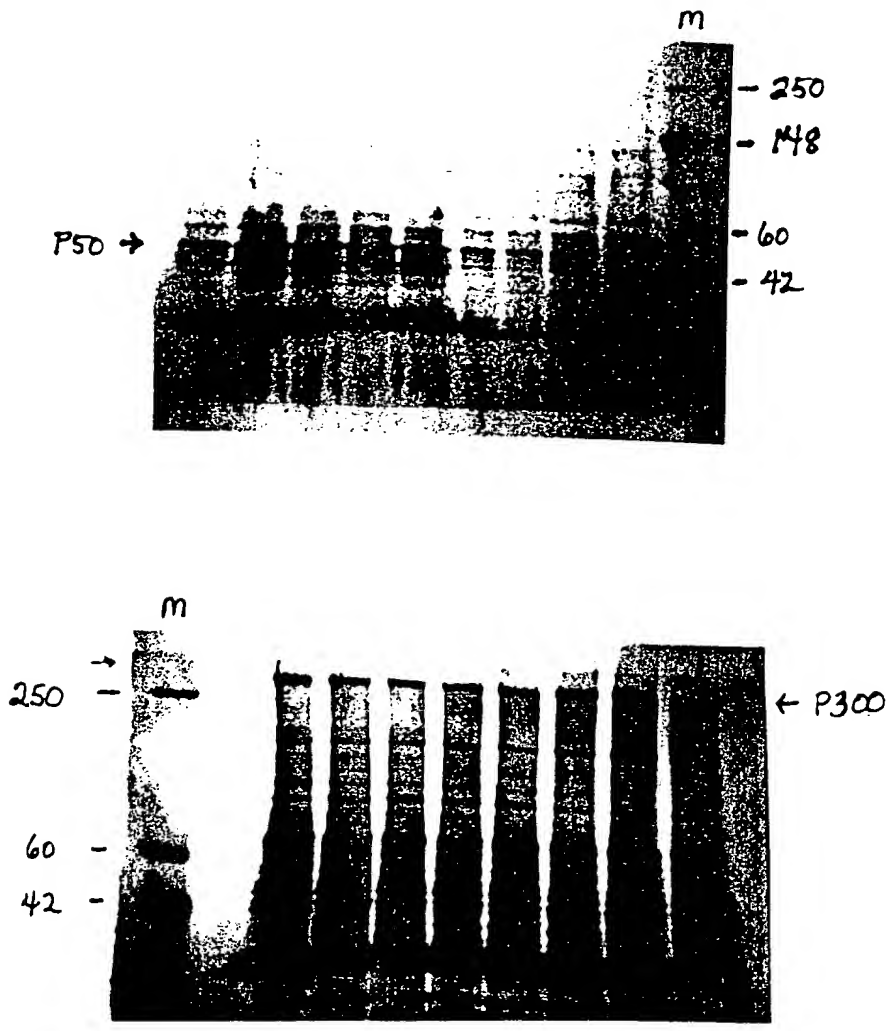


Figure 11

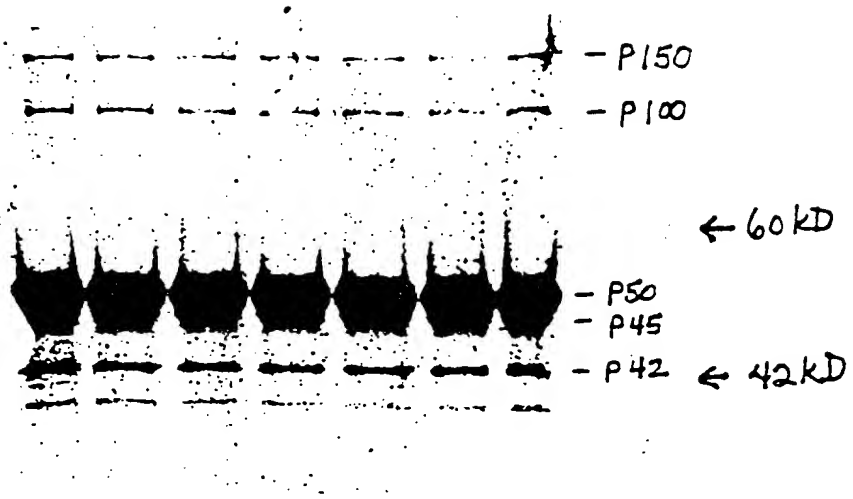


Figure 12

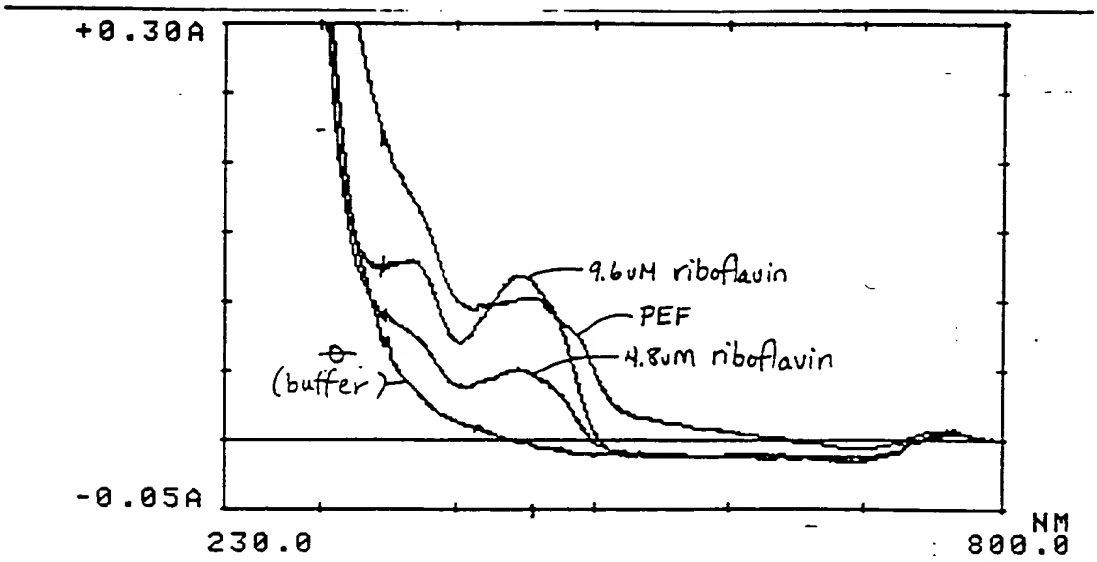

+0.30A
-0.05A
230.0
800.0
NM
9.6uM riboflavin
PEF
4.8um riboflavin
(buffer)

Figure 13

5.2 Kb On/Off Assay

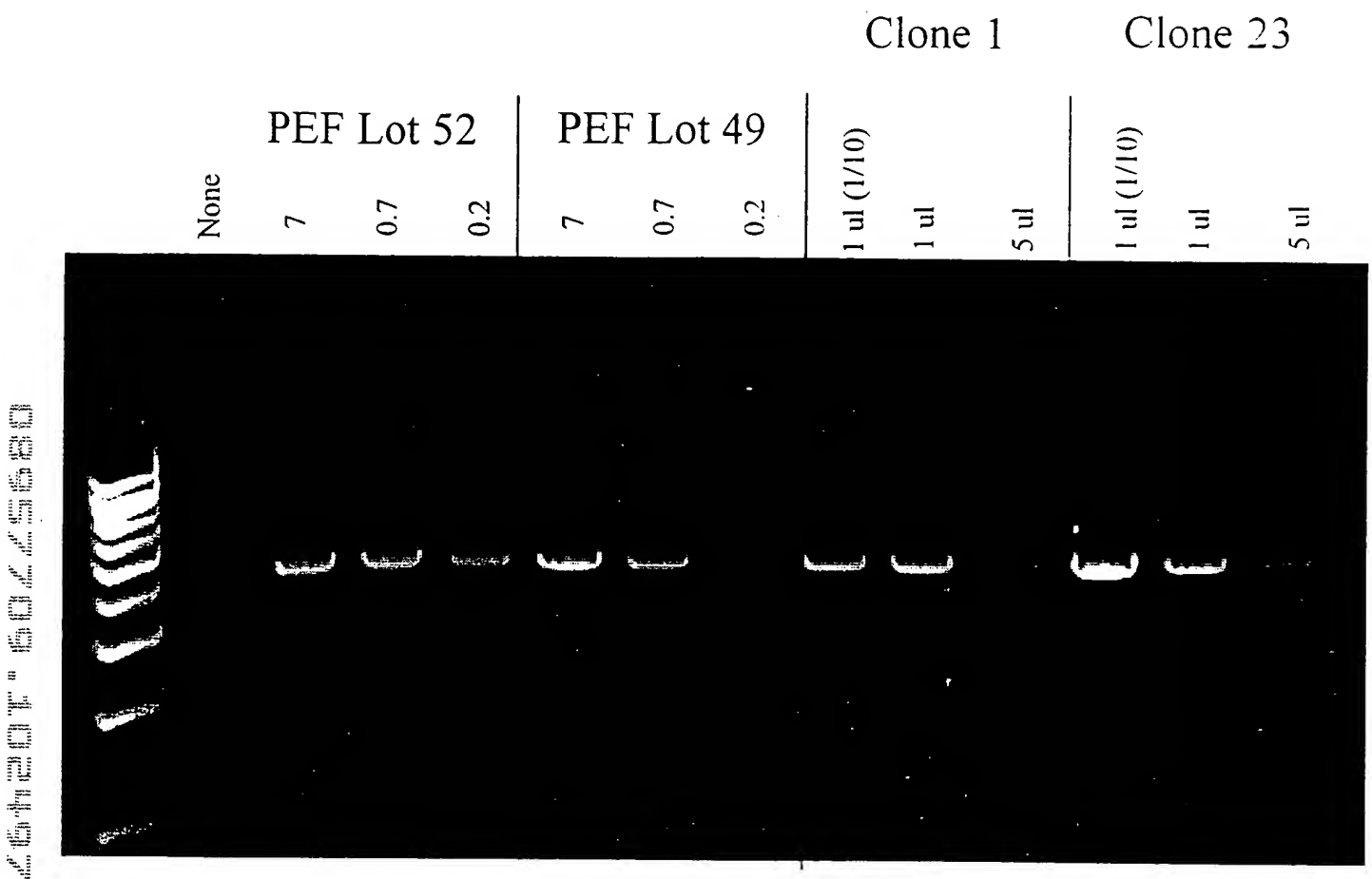


Figure 14

Schaper 60/456,680

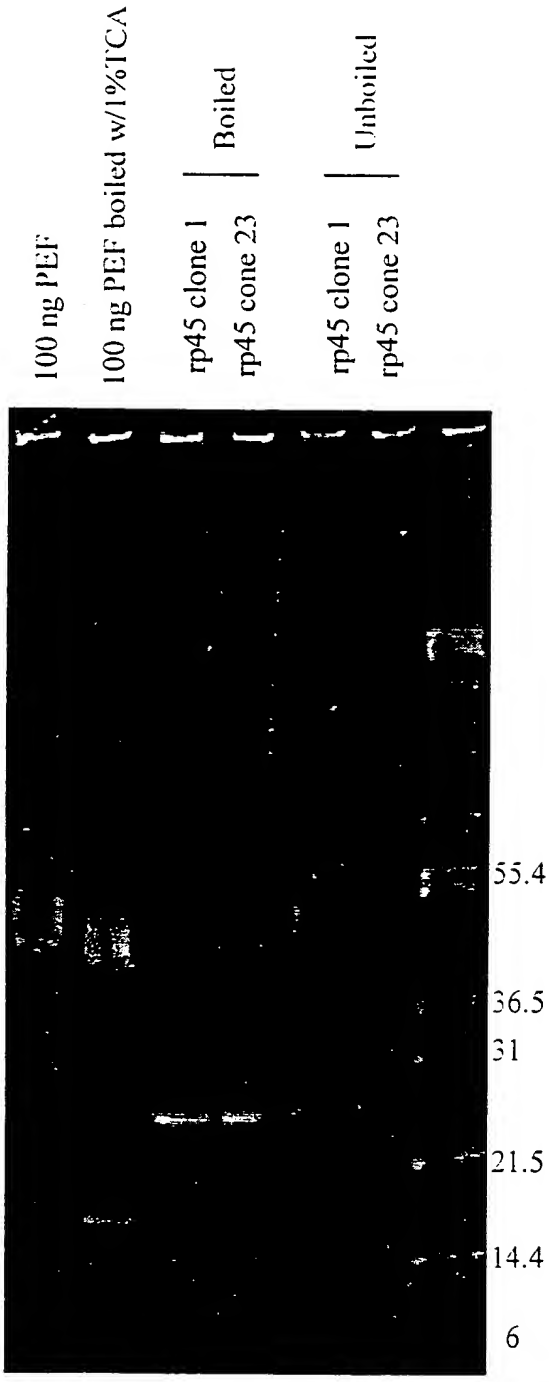


Figure 15

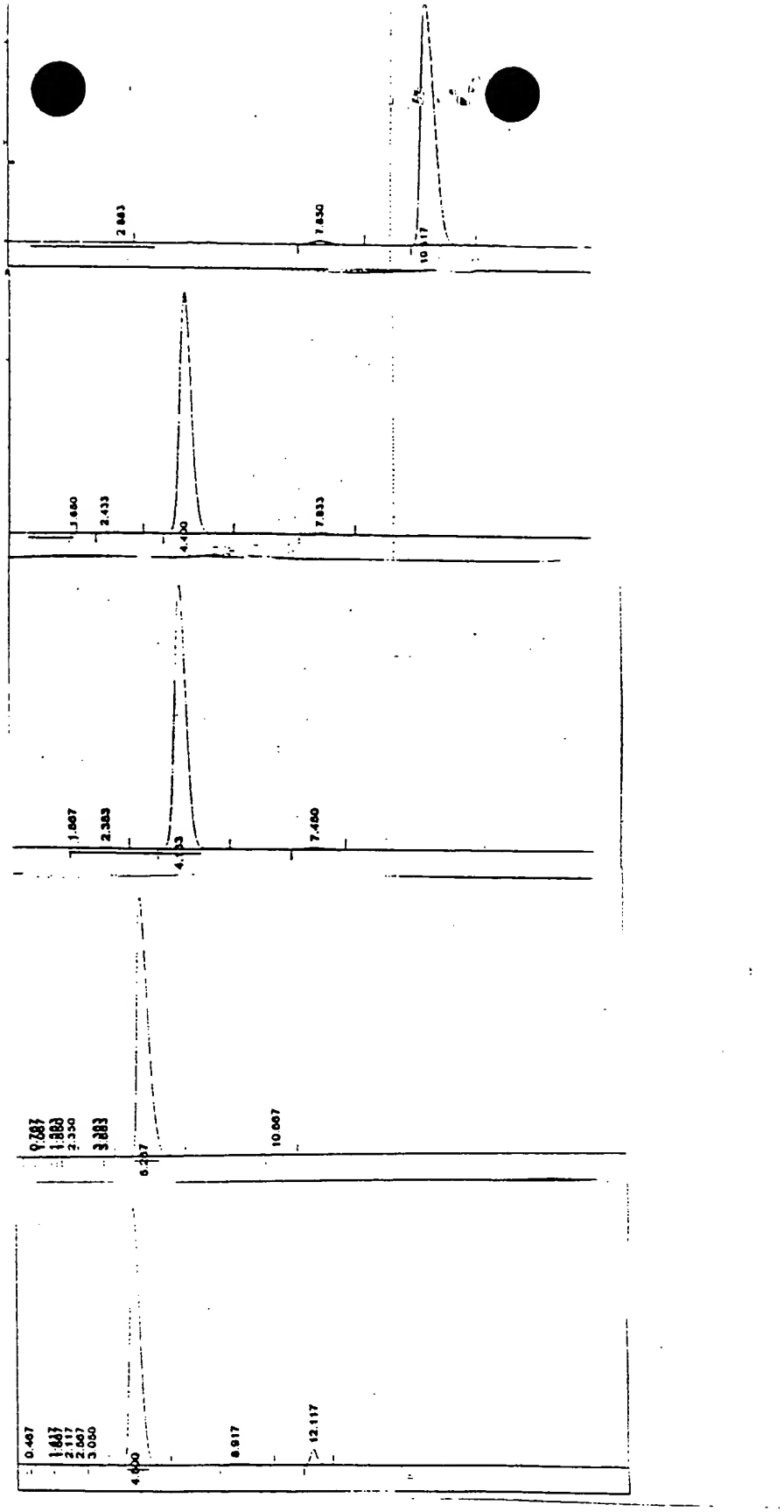

2.883
7.850
10.117
1.660
2.433
4.400
7.833
1.667
2.383
7.450
10.667
0.467
1.617
2.117
2.667
3.050
8.917
12.117

Figure 16

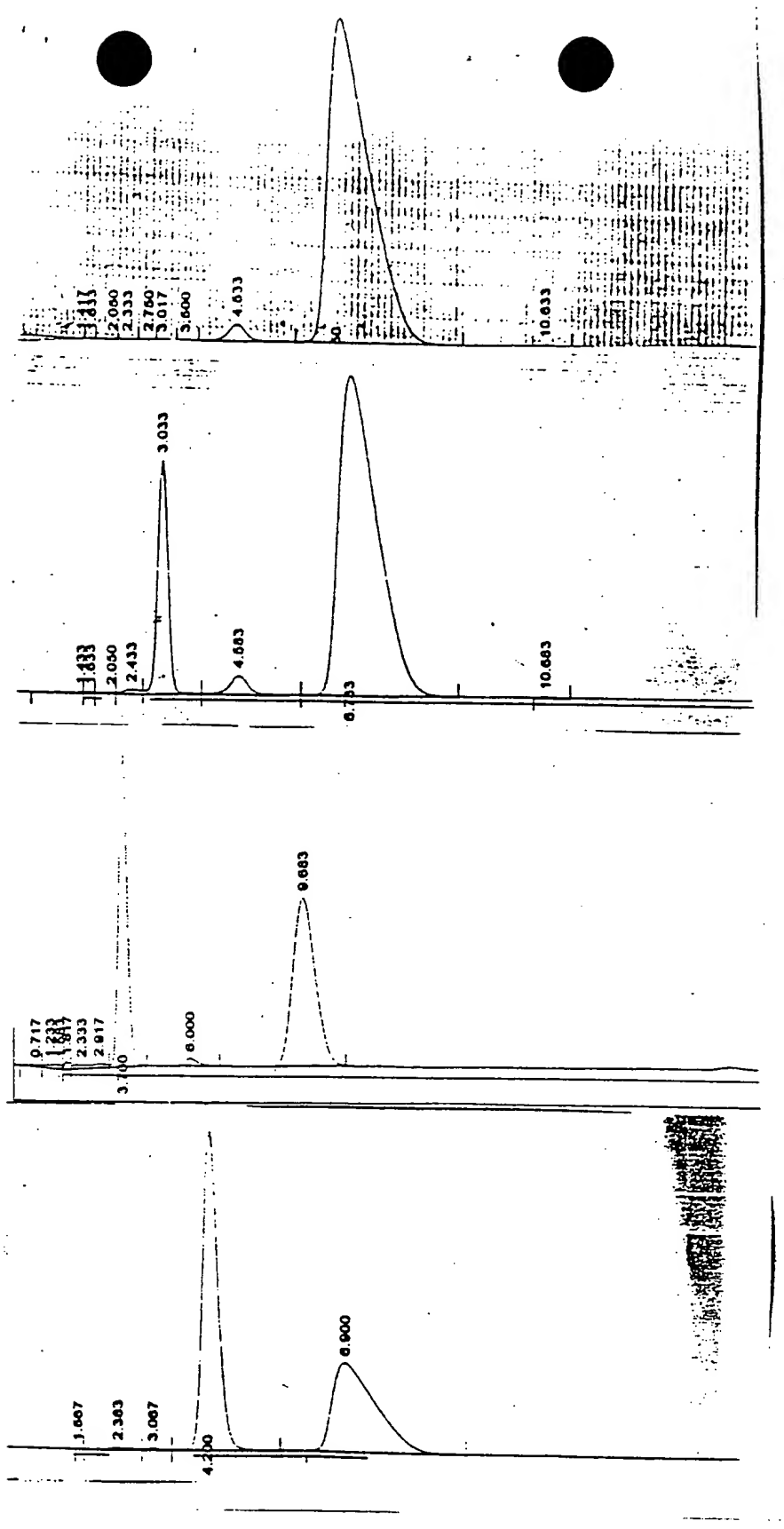

2.060
2.333
2.760
3.017
3.600
4.033
10.633
3.033
2.433
4.683
10.683
9.683
6.000
2.917
2.333
0.717
3.200
6.900
2.383
3.067
4.200

Figure 17

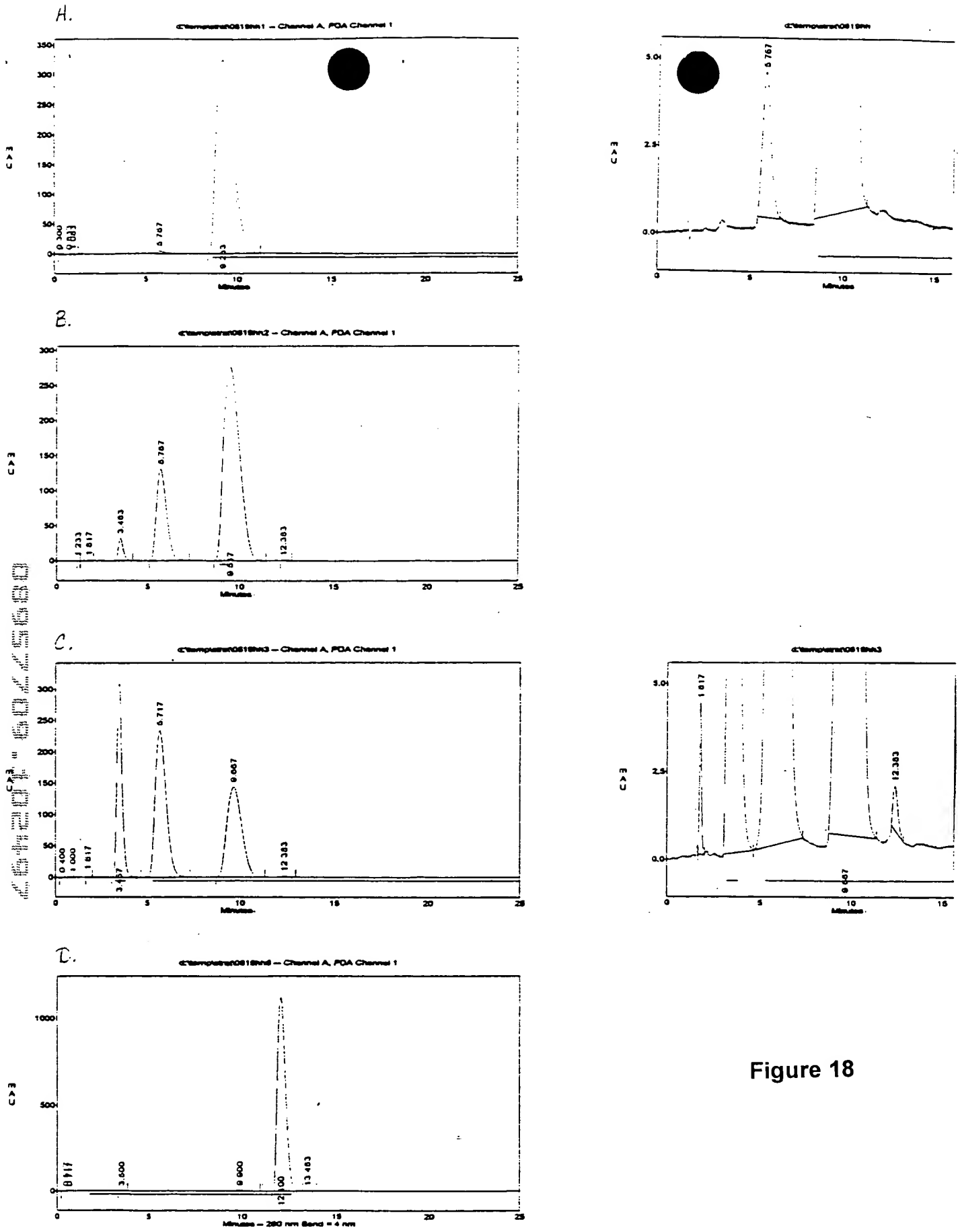


Figure 18

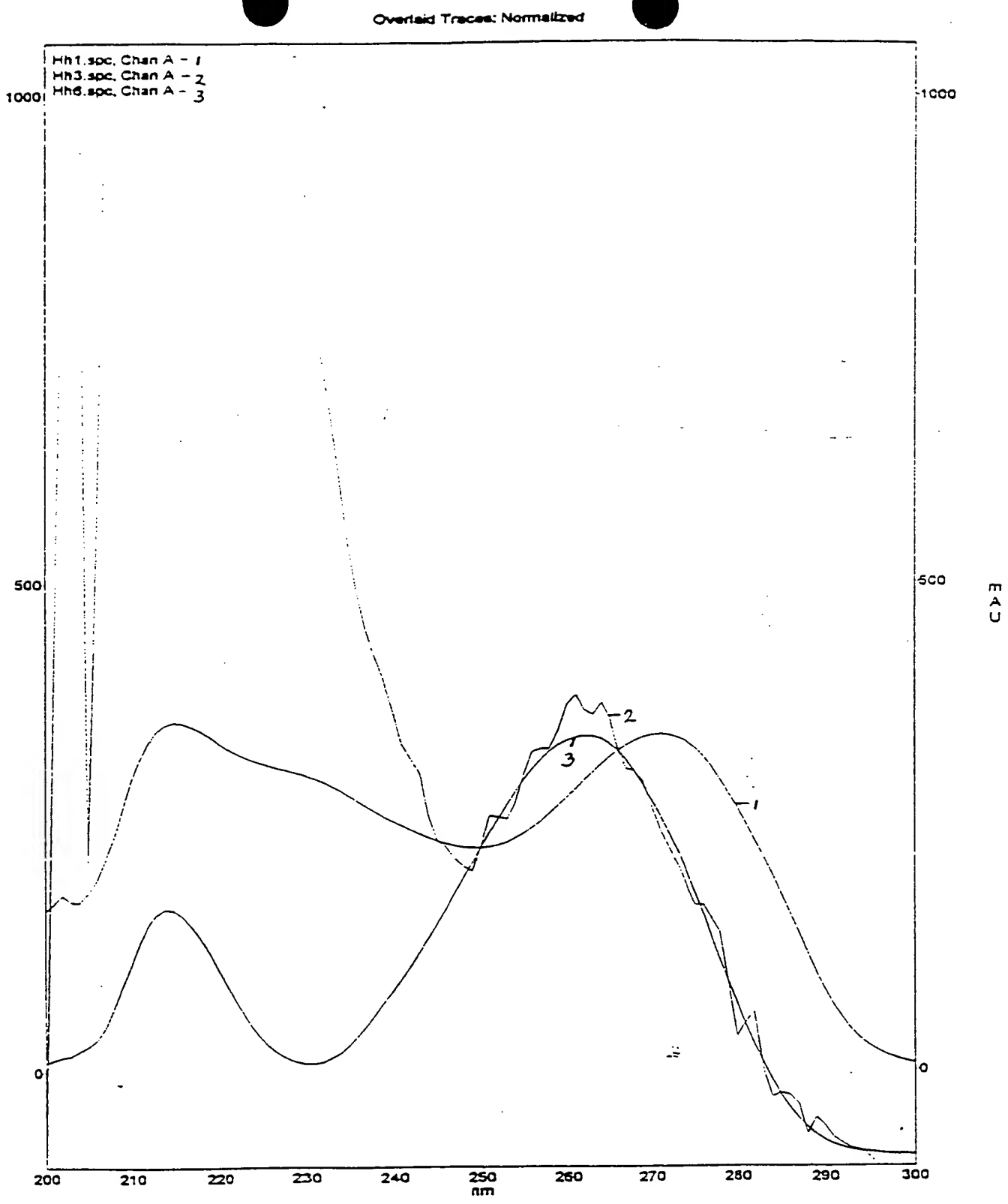
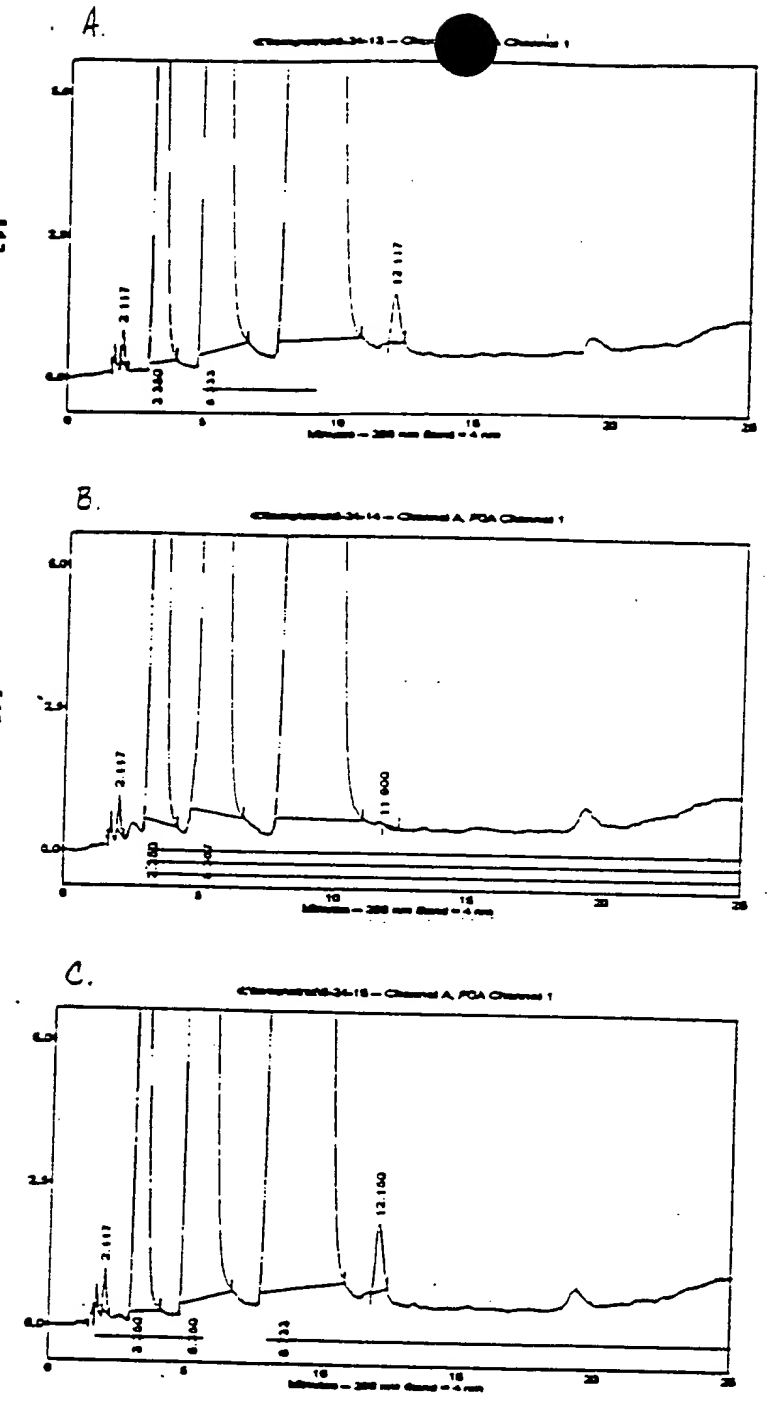

Overlaid Traces: Normalized
Hh1.spc, Chan A - 1
Hh3.spc, Chan A - 2
Hh6.spc, Chan A - 3
1000
500
0
mAU
200
210
220
230
240
250
260
270
280
290
300
nm
2
3
1

Figure 19



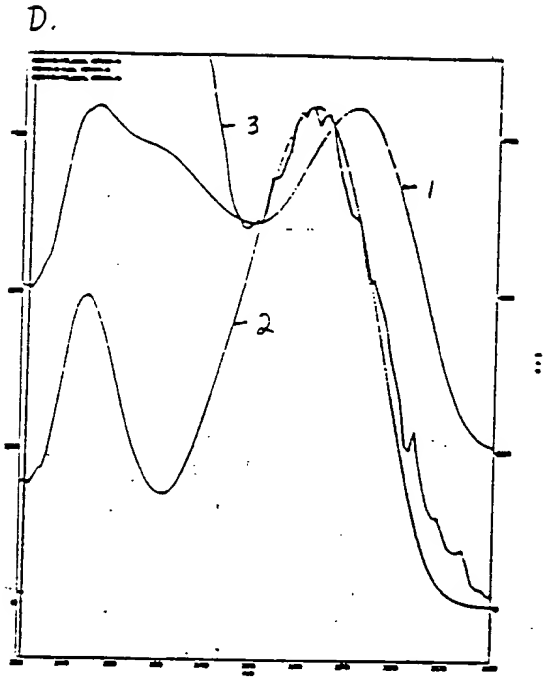


Figure 20

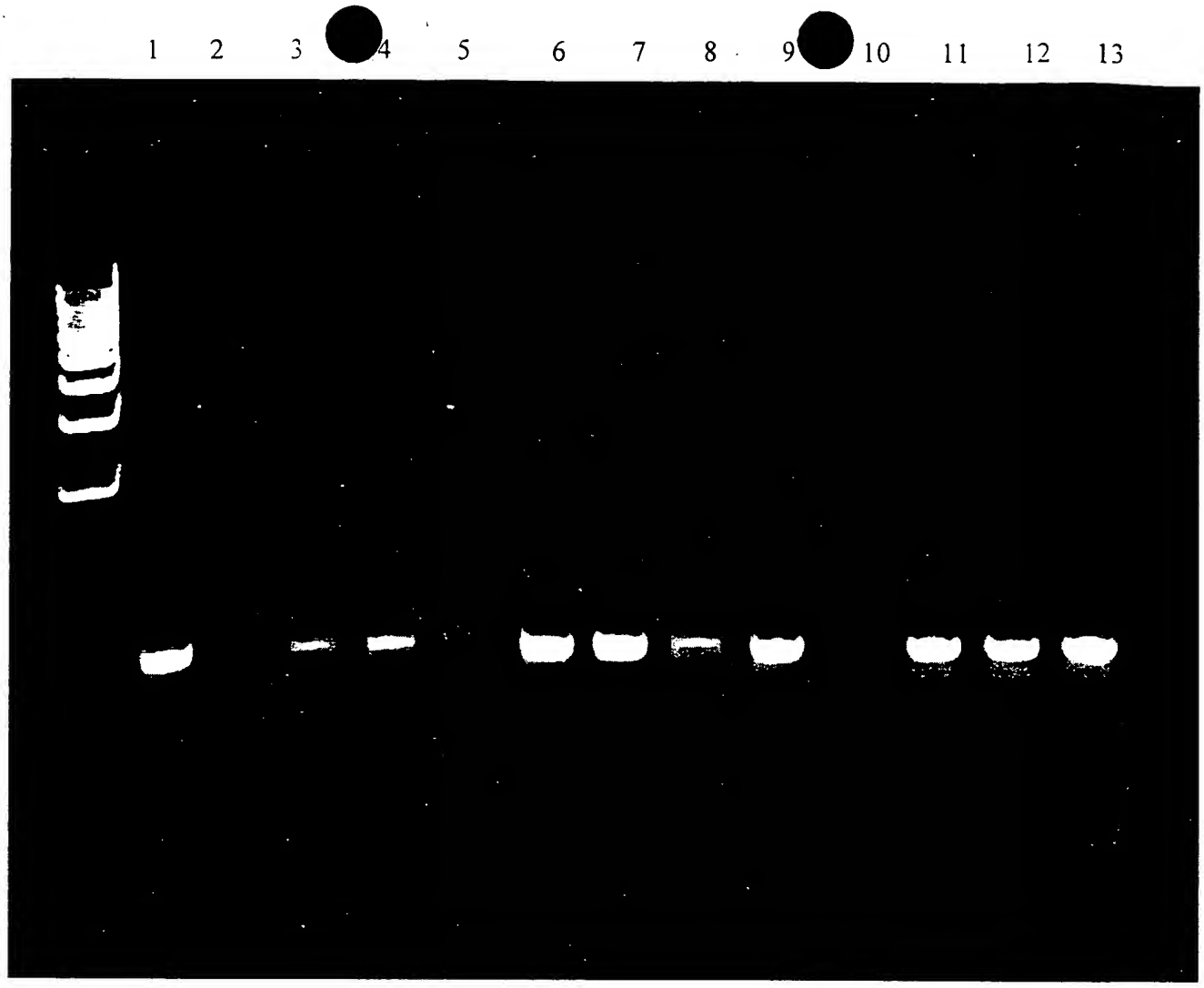


Figure 21

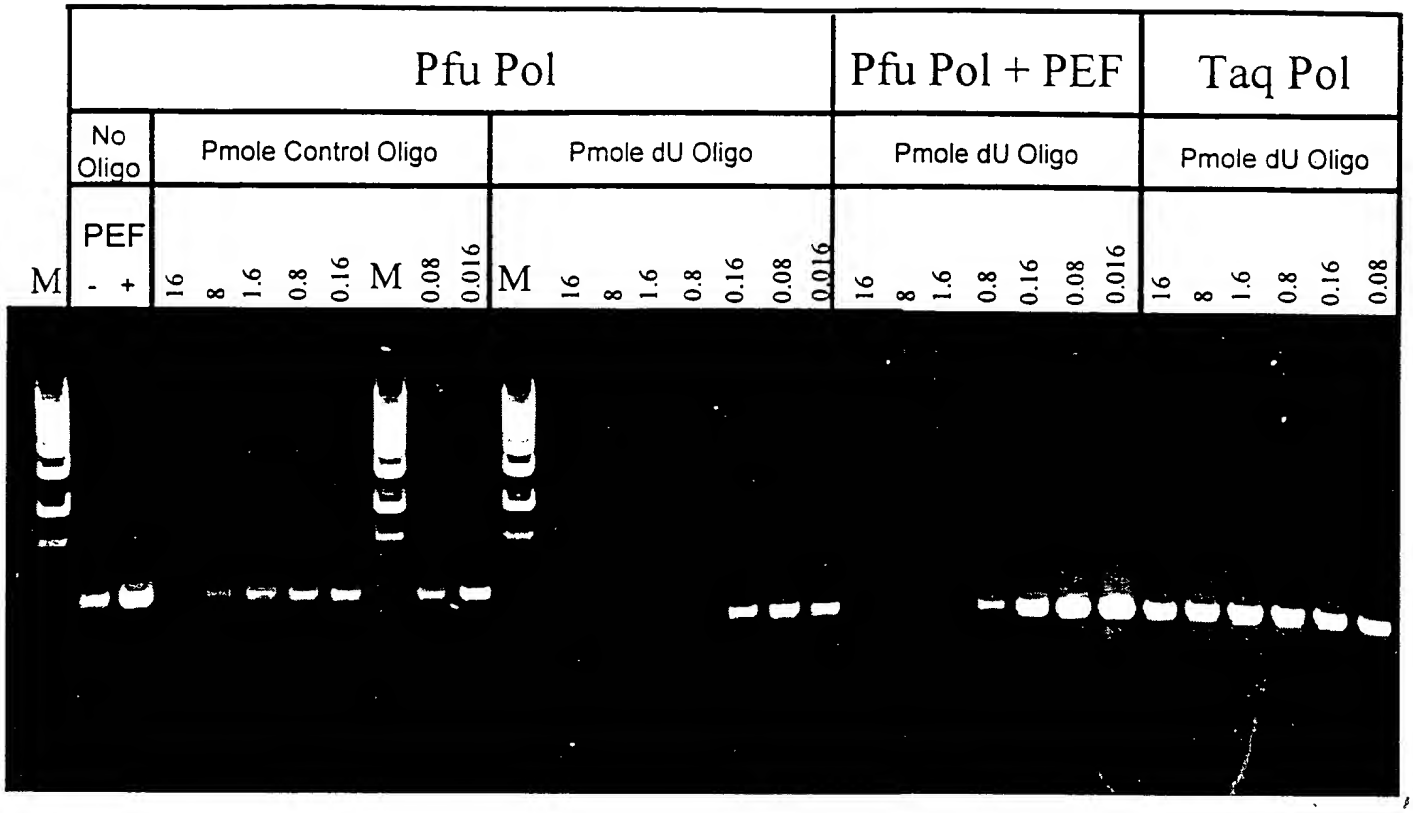

Pfu Pol
Pfu Pol + PEF
Taq Pol
No Oligo
Pmole Control Oligo
Pmole dU Oligo
Pmole dU Oligo
Pmole dU Oligo
PEF
M
- +
16
8
1.6
0.8
0.16
M
0.08
0.016
M
16
8
1.6
0.8
0.16
0.08
0.016
16
8
1.6
0.8
0.16
0.08
0.016
16
8
1.6
0.8
0.16
0.08

Figure 22

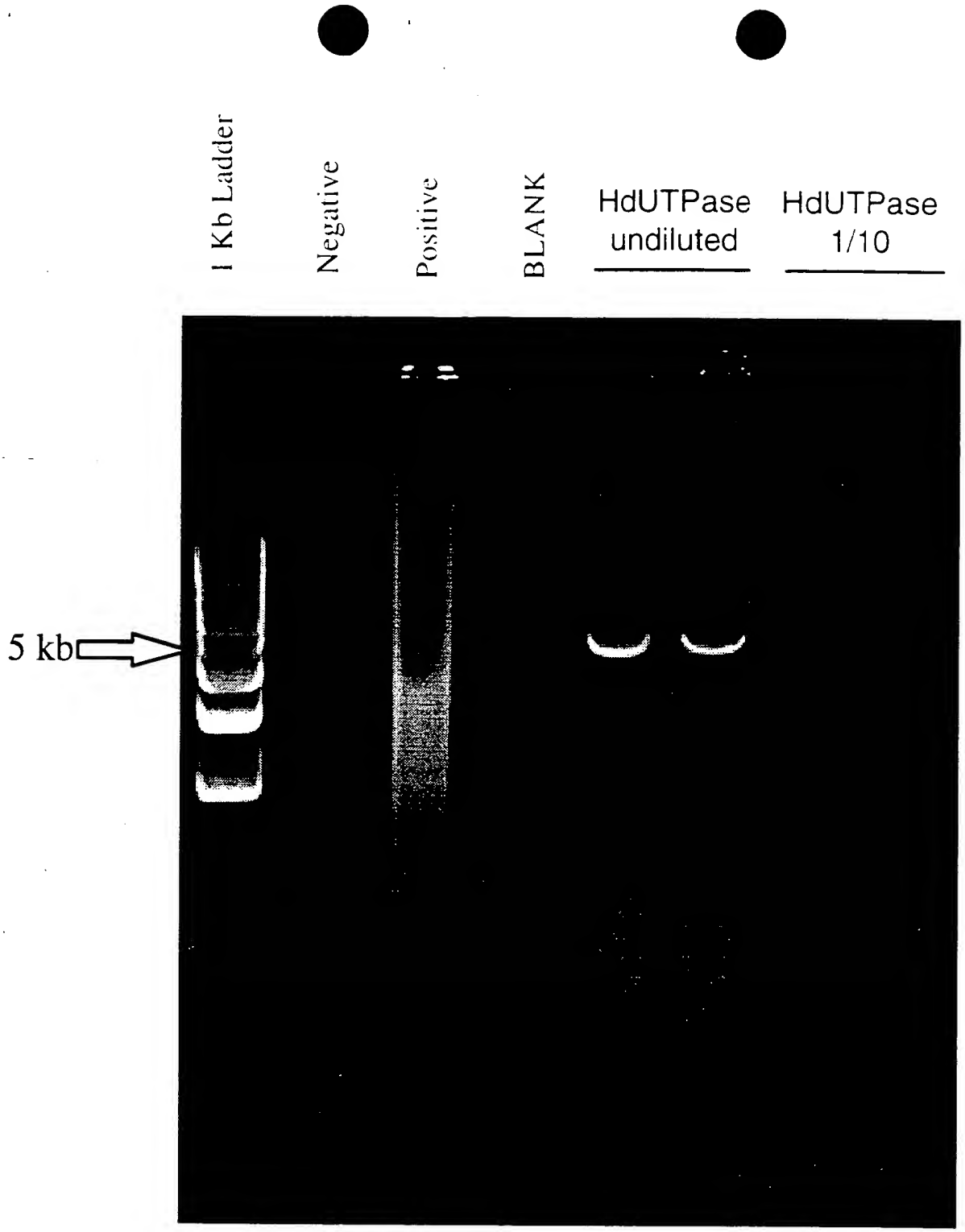

1 Kb Ladder
Negative
Positive
BLANK
HdUTPase undiluted
HdUTPase 1/10
5 kb

Figure 23

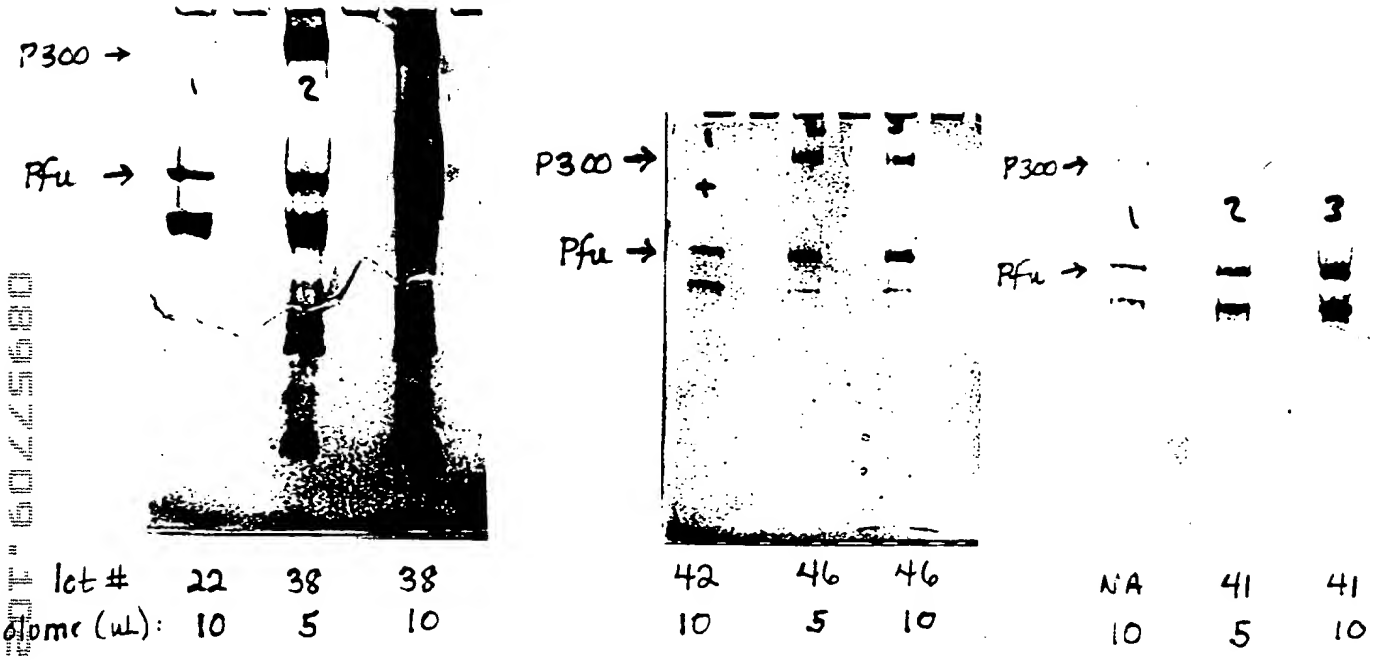

P300 →
Pfu →
1
2
lot # 22 38 38
volume (uL): 10 5 10
P300 →
Pfu →
42 46 46
10 5 10
P300 →
Pfu →
1 2 3
NA 41 41
10 5 10

Figure 24

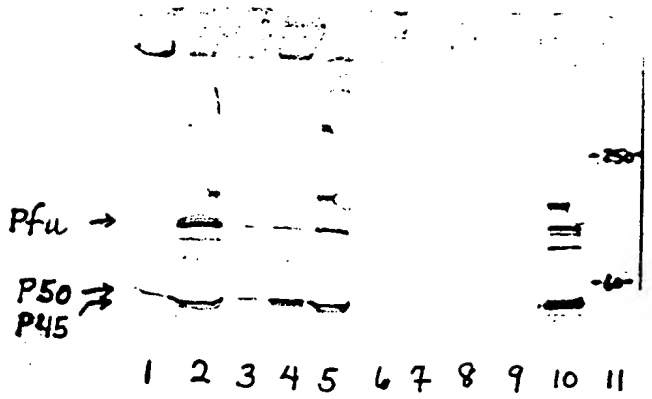


Figure 25

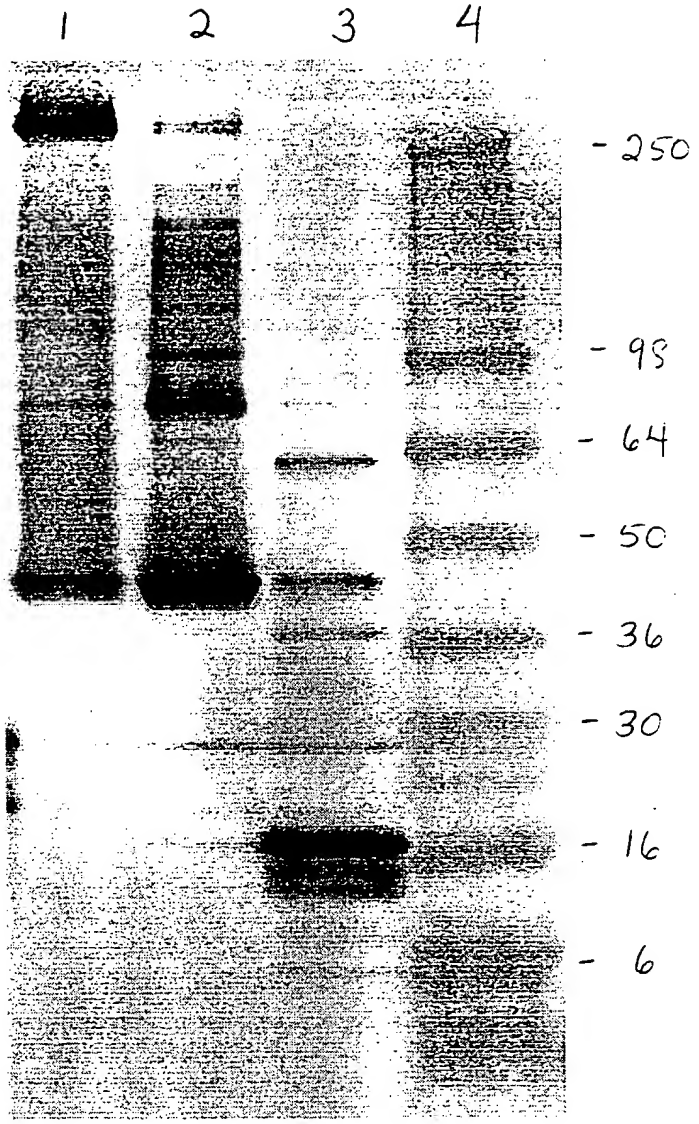


Figure 26

09595705 - 040249

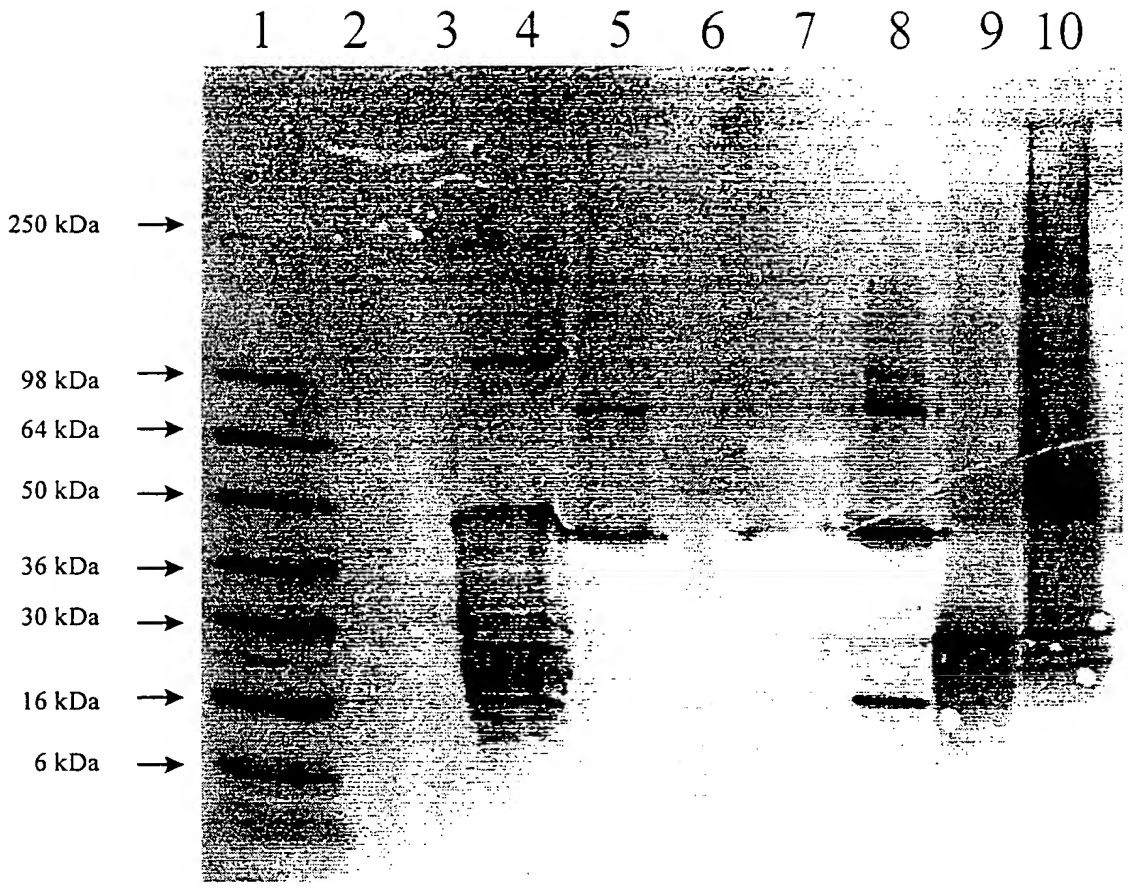

1 2 3 4 5 6 7 8 9 10
250 kDa
98 kDa
64 kDa
50 kDa
36 kDa
30 kDa
16 kDa
6 kDa

Figure 27

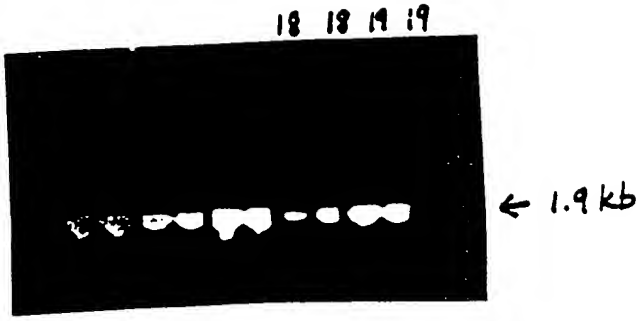


Figure 28

0606/0606-4050

Attorney Docket No. 5525.0050000

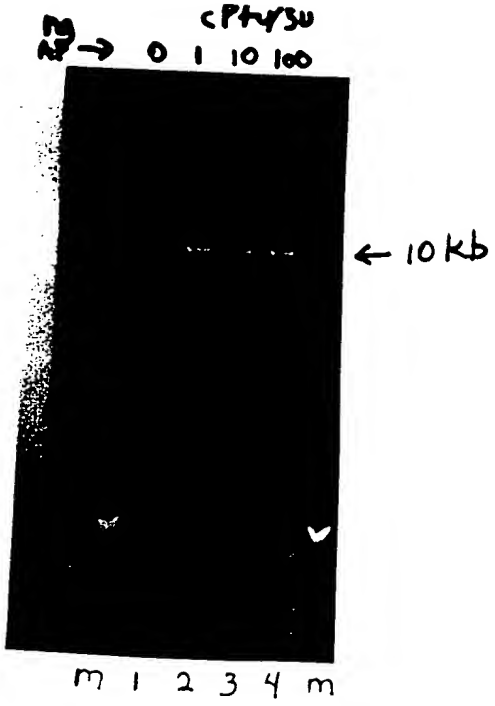


Figure 29

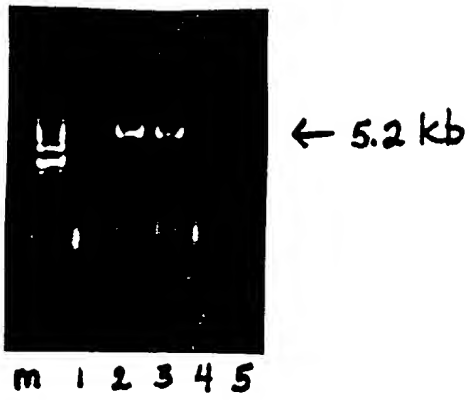


Figure 30

26th Jan 96 v 5.5 6 8 9

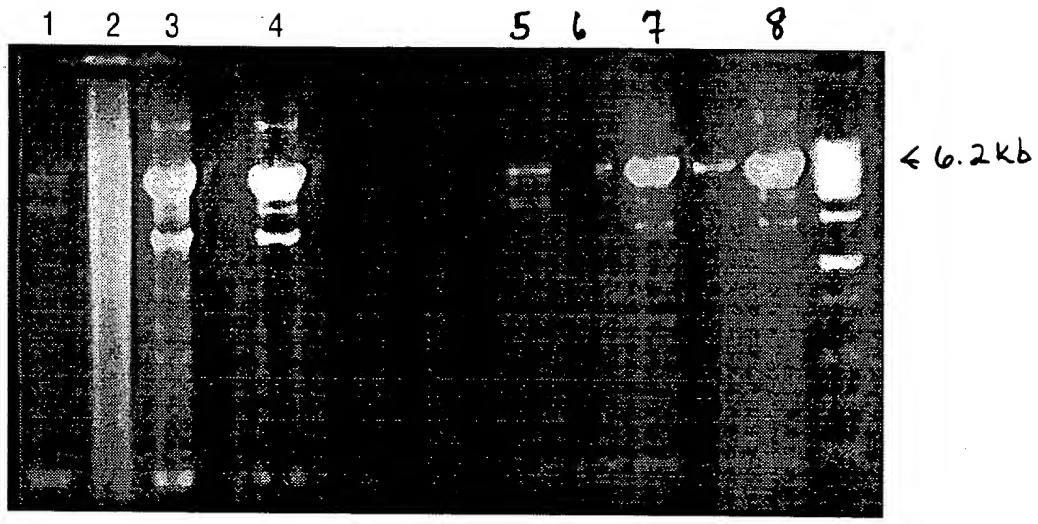


Figure 31

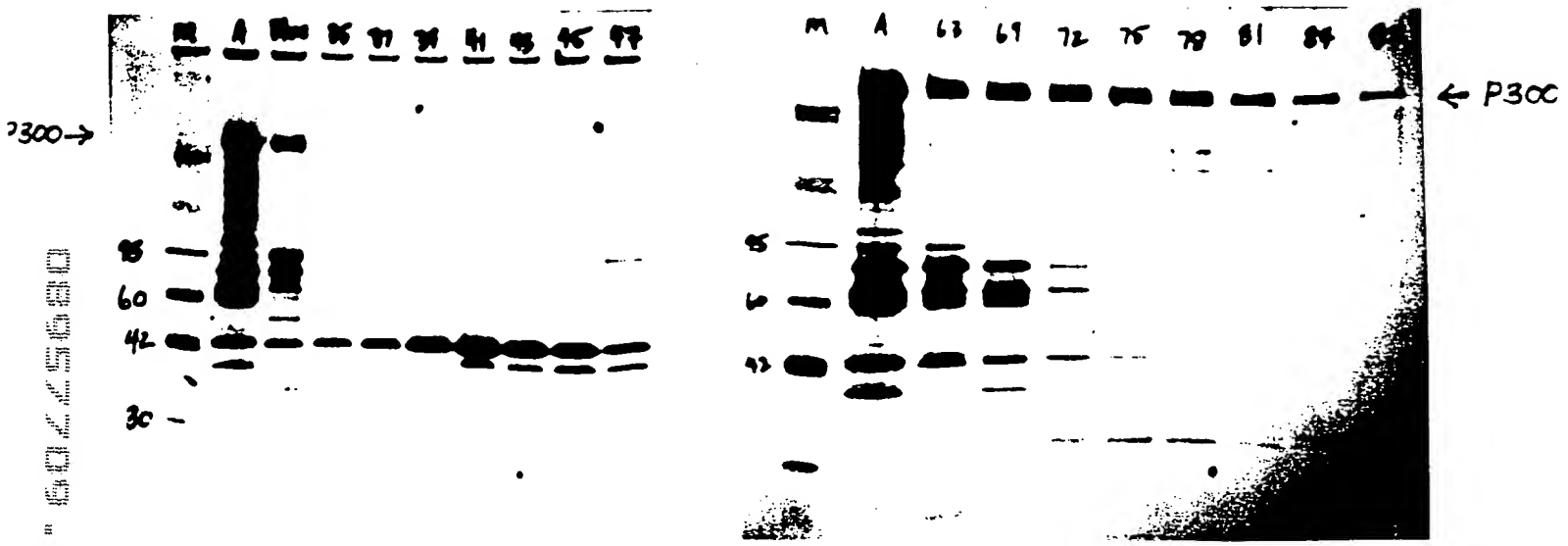


Figure 32

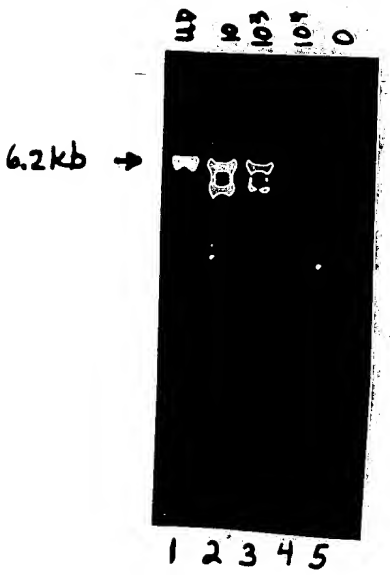


Figure 33

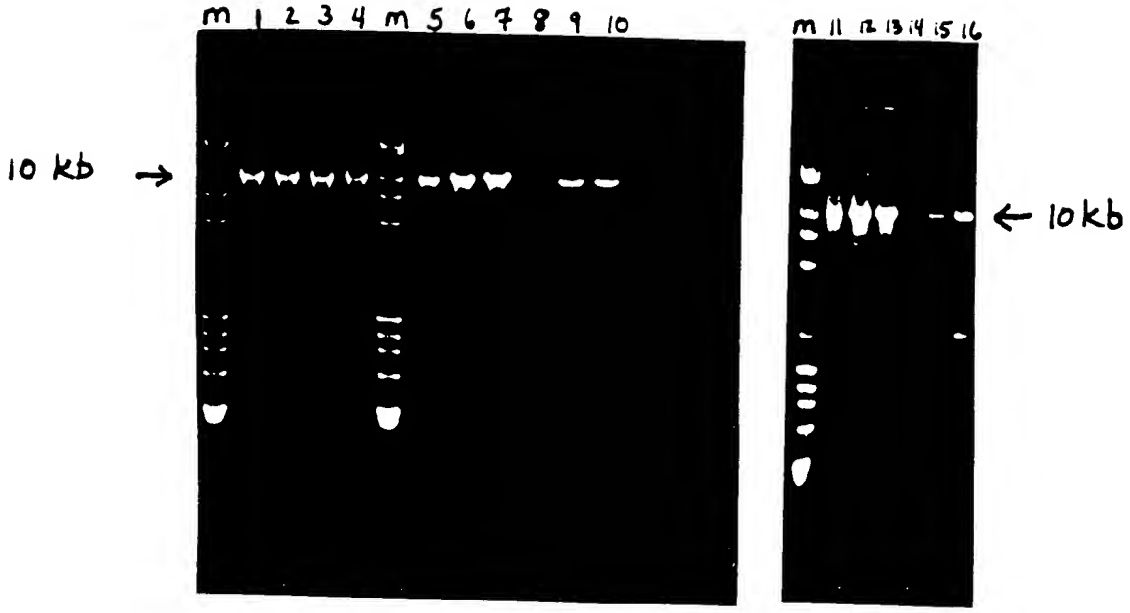


Figure 34

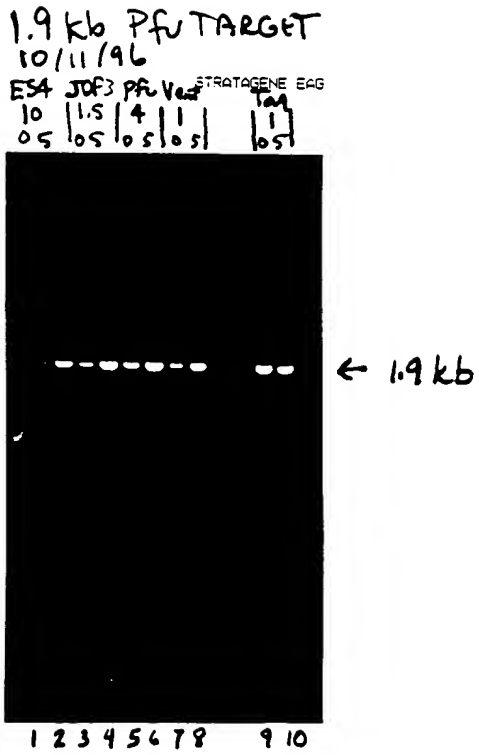

1.9 kb PfuTARGET
10/11/96
STRATAGENE EAG
ESA JDF3 Pfu Vent Taq
10 1.5 4 1 1
0 5 0 5 0 5 0 5 0 5
← 1.9 kb
1 2 3 4 5 6 7 8 9 10

Figure 35

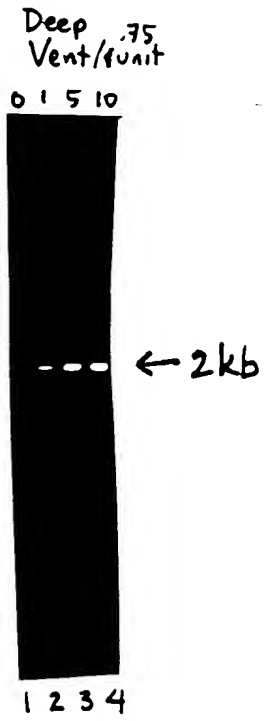


Figure 36

5,824,483 - 3 - 5,824,483

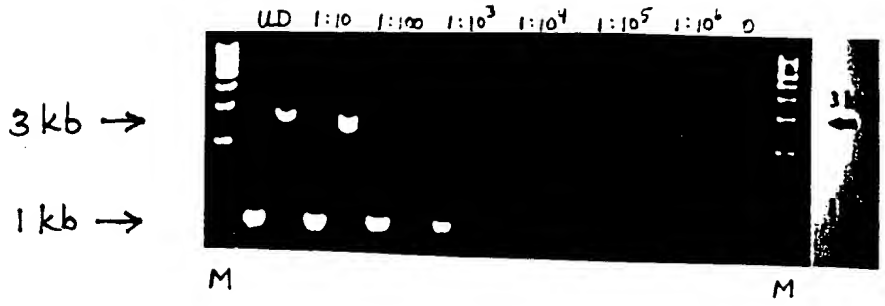


Figure 37

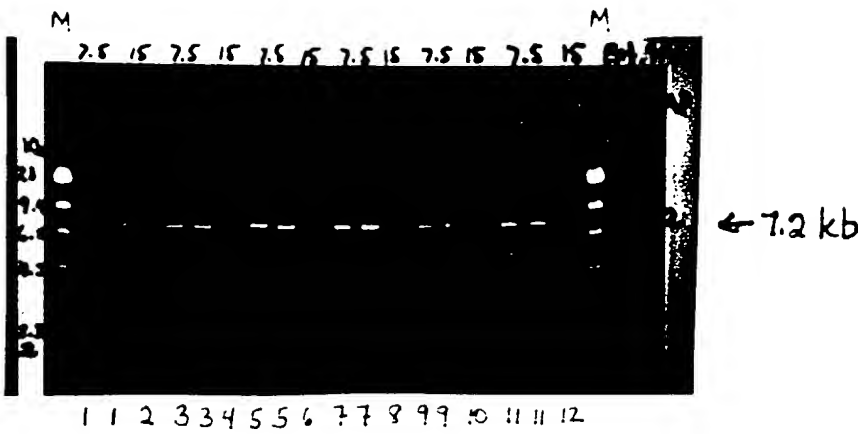

M
M
2.5 15 7.5 15 7.5 15 7.5 15 7.5 15 7.5 15
1 1 2 3 3 4 5 5 6 7 7 8 9 9 10 11 11 12
← 7.2 kb

Figure 38

Pfu "PCR Enhancer" in QuikChange Mutagenesis

Linear Amplification Conditions				Transformation Results	
Pol.	Buffer	H.S. #75	Ampl. Prod.	#cfu	%mutants
nPfu (#38)	nPfu	0	+	84	95
		1µl	±	47	87
		.1µl	+	154	97
		.01µl	++	632	95
		.001µl	+	484	94
cPfu (#24A)	nPfu	0	+	94	89
		1µl	+	34	85
		.1µl	+	173	91
		.01µl	++	468	96
		.001µl	+	230	90

Figure 39

US 6,395,547 B1

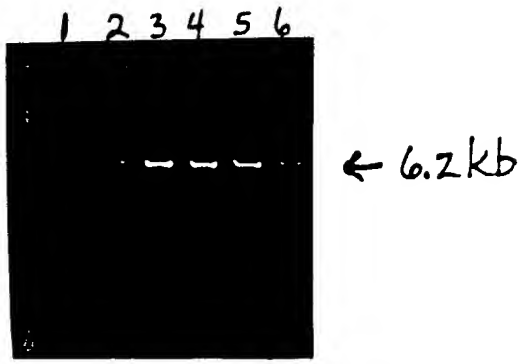


Figure 40

Substitute Sheet (Rule 26)

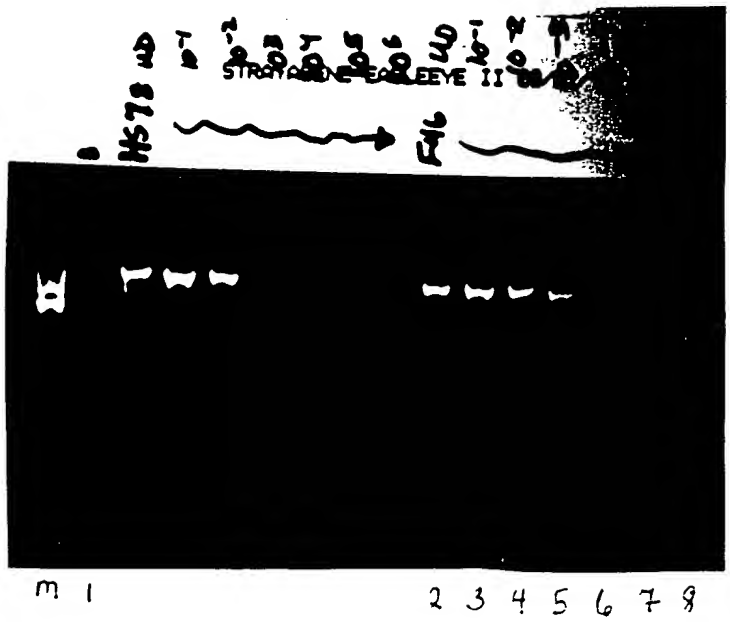


Figure 41

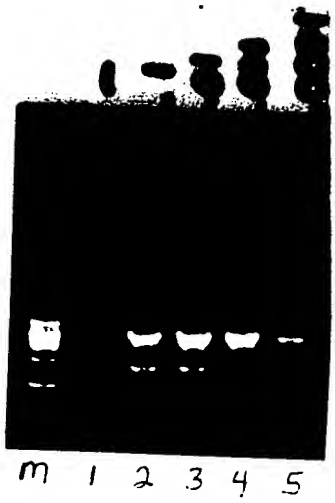


Figure 42

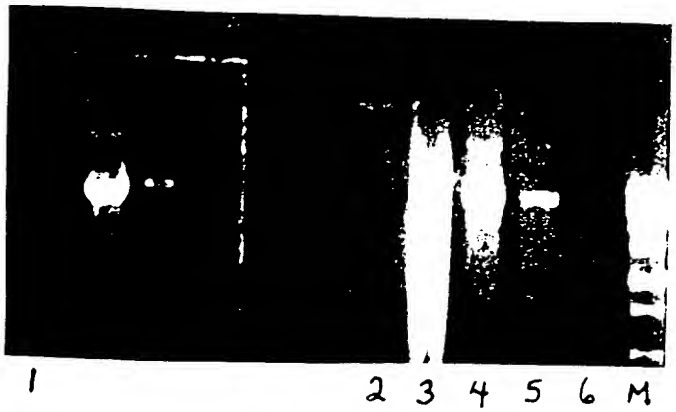


Figure 43

2647205.6

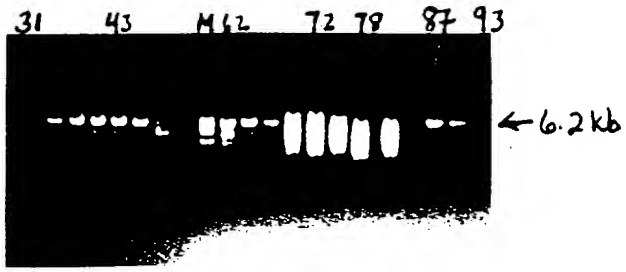


Figure 44